ANTIPERSPIRANT PRODUCT BASED ON MICROEMULSION GELS

Abstract of the Disclosure

The invention is an antiperspirant product, comprising

(a) an oil-in water microemulsion including an oil phase and a water phase and being substantially free of alcohol, said microemulsion gel further comprising:

one or more oil-in-water emulsifiers selected from the group consisting of polyethoxylated oil-in-water emulsifiers, polypropoxylated oil-in-water emulsifiers and polyethoxylated and polypropoxylated oil-in-water emulsifiers, wherein said microemulsion has a total emulsifier content of less than 20% by weight, based on the total weight of the microemulsion, and

one or more antiperspirants, having a total content of 5 to 40% by weight, based on the total weight of the microemulsion,

wherein said microemulsion is prepared by bringing a mixture comprising the water phase, the oil phase, and the one or more oil-in-water emulsifiers to a temperature within or above the phase-inversion temperature range, and subsequently cooling it to room temperature,

wherein the droplets of the discontinuous oil phase are joined together by one or more crosslinkers, said crosslinkers having at least one hydrophilic region which has an extension which is suitable for bridging the distance between the microemulsion droplets and at least one hydrophobic region which is able to enter into hydrophobic interaction with the microemulsion droplets, and

(b) a pump atomizer, comprising:

a container, and

an atomizer pump comprising a riser tube, a cylindrical chamber which is placed under pressure by depressing a piston, a pump valve which closes the cylindrical chamber and opens under a pressure of at least 0.7 mPa, and two or more turbulence channels radiating to a nozzle opening, said channels causing a flowing liquid to rotate relative to a flow axis.